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In accordance with the present invention a radiation image storage panel comprises a self-supporting or supported layer of storage phosphor particles dispersed in a binding medium and, adjacent thereto, a protective coating characterized in that, besides a binder, the said protective coating comprises a white pigment having a refractive index of more than 1.6, which is present in the said binder, preferably further comprising a urethane acrylate, and wherein said protective coating has a surface roughness (Rz) between 2 and 10  $\mu\text{m}$ .